

# Ontario Wood Preservation – Sector Update

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Great Lakes Binational Toxics Strategy  
Meeting

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# Outline

- Overview of WP Industry in Ontario
- Production and Use
- Chemical Concentration
- Release Inventory Update
- TRD Program Update
- Next Steps (TRD and UGD)



# Ontario Wood Preservation Industry

- 14 plants in Ontario as of Nov 2004 (17 in 2000)
- 3 plants shutdown or mothballed since 2000
- 13 plants use ACQ/CCA and one uses Copper Azole
- Only one PCP and no creosote plant (3 PCP and 1 creosote in 2000)

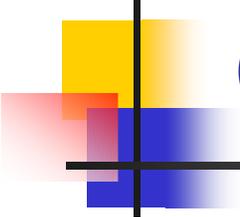


# Production and Use (Creosote Wood)

Creosote –treated Wood		Railway Tie	Utility Poles (full treat)	Utility Poles (butt treat)	Land/ Bridge Timbers	Marine Pilings
		Canada	Canada	Canada	Canada	Canada
		# of ties	# of poles	# of poles	m <sup>3</sup>	m <sup>3</sup>
In-service Creosote Wood (1997)		119,318,182	940,299	1,611,940	425,000	1,200,000
Annual New Installation (1997)		1,670,455	0	0	20,160	14,480
Annual Removal (1997)		1,670,455	16,590		7,930	2,830
Disposal (1997 data)	Recycled	60%	40%		30%	20%
	Landfilled	40%	60%		70%	80%
<p>1. It is assumed that 24% of the creosote-treated wood is located in Ontario and there is no creosote marine piling used in Ontario.</p> <p>2. Tie volume = 0.088 m<sup>3</sup>. Pole volume = 25 ft<sup>3</sup> = 0.67 m<sup>3</sup>.</p>						

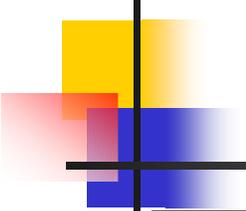
# Production and Use (PCP Wood)

In-service and Out-of-Service PCP Wood	Utility Poles		Railway Tie	
	Canada	Ontario	Canada	Ontario
	# of poles	# of poles	# of ties	# of ties
In-service PCP wood	6,800,000	680,000	795,455	79,545
Treated with pre-1987 formulation	4,760,000 (70% of the in-service )	476,000	795,455	79,545
Treated with post-1987 formulation	2,040,000 (30% of the in-service)	204,000	0	0
1999 Production	181,776	3,896	0	0
Annual New Installation	138,150	13,815	0	0
Annual Removal	129,200	12,920	7,955	796
Disposal (2000 data)	<ol style="list-style-type: none"> <li>1. Reused as poles, 13%.</li> <li>2. Sale/donation, 30%.</li> <li>3. Recycle as other wood products, 28%.</li> <li>4. Recycle as cogeneration, 4%.</li> <li>5. Other use, 12%.</li> <li>6. Landfill, 13%.</li> </ol>		SOR report shows that approximately 60% removed ties are recycled and 40% are landfilled.	



# Chemical Concentration

	Content in Creosote	Content in PCP	Comment
BaP	0.2%	n/a	1991 VFT data from 13 batches of creosote
PAH	55%	n/a	
HCB	n/a	50 ppm	Penta Task Force informed that it is relatively unchanged since 1997 production
D/F	n/a	0.84 ppm TEQ	



# Release Inventory Update

	Previous Inventory		New Estimate (Wood Use in Ontario)	
	Release	Reference	Release	Percent of Ontario Total
BaP (kg/yr)	2060	Benazon Report	2060	16%
HCB (g/yr)	65	Benazon Report	243	1%
D/F (gTEQ/yr)	0.19	Canadian D/F Inventory	1.2	3%

# TRD Program Update

- New TRD distributed in Aug 2004 (ACQ added)
- Progress monitoring visits started in 2003 (2 in 2003 and 2 in 2004 in ON)
- Average compliance level 87% (up from 67% in 2000)
- 3 non-Ontario facilities will be subject to P2 Notice



# Next Steps

- TRD progress verification visits in 2005
- TRD certification program in 2006
- P2 planning for TRD non-compliant facilities



# Next Steps (Cont'd)

- Distribute User Guidance Document (UGD) to industrial users (CN, CP, Bell Canada, Electric Utilities, etc.)
- Deliver UGD promotion activities
- Implement the recommendations/guideline on purchasing, storage, in-service use, disposal, and post-use of the treated wood

